

SEQUENCE LISTING

<110> KEITH, TIM

<120> NOVEL HUMAN GENE RELATING TO RESPIRATORY DISEASES AND
OBESITY

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cagccctgg cccctccta cagatggtgt ctaagaataa accccactaa catgtgactc 23520
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```

<210> 7
<211> 65
<212> DNA
<213> Homo sapiens

```

```

<400> 7
agtctccgtg ctcttagccc tctcaccaa caggaaacca atatgattag tttctttcat 60
aggct 65

```

```

<210> 8
<211> 656
<212> DNA
<213> Homo sapiens

```

```

<400> 8
gtgcagcctc aggcgcgcgc ctteggacct tccgcgcgc acctcccacc gccgcgcctc 60
gctccgcct cccctcccg ccaacccgc tggagcctg gccaggggccc cgcagggcgc 120
gcgccatggg ggagccgggt cgccactccc ggaccgcgc ccctcgaggg ggtggagctg 180
ggcggaggag ggaatccgtg cggccctcg gatgaccggc ccgagccgtc cctccccgtc 240
ggtctcagag ggctctact cctgagagga ggagagaacc gctgggaagg ttcttgagg 300
accgcggcgt ggtgggatga ggcggtgggc aaagccgcgc tctcgctgct gaagttggcc 360
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tctgccccg agggtgccct ggcggaggtt gagtcgggtc atccacctgc actgggtgcc 480
cccaaggata ggaaggttca ggcaaccggc tgccgctgtc ttgggggctt cattgctggg 540
caaaggcgat gcagcagac gagacaacct ttcttccctg gcggtggcca gagggcagaa 600
ttgcataaaa gctgcagact cccaggcctg ggagaccctt tcggcctcag taacat 656

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<210> 9
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 9
 cgggcacggg tcggccgcaa tccagcctgg gcggagccgg agttgcgagc cgctgcctag 60
 aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
 tgctgctgct actactgctg ctgctctggc cagtgccagg cgccggggtg cttcaag 177

<210> 10
 <211> 80
 <212> DNA
 <213> Homo sapiens

<400> 10
 gacatatccc tgggcagcca gtcacccgc actgggtcct ggatggacaa ccctggcgca 60
 ccgtcagcct ggaggagccg 80

<210> 11
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 11
 gtctcgaagc cagacatggg gctggtggcc ctggaggctg aaggccagga gtcctgctt 60
 gagctggaga agaacca 77

<210> 12
 <211> 79
 <212> DNA
 <213> Homo sapiens

<400> 12
 caggctgctg gccccaggat acatagaaac ccactacggc ccagatgggc agccagtgg 60
 gctggccccc aaccacacg 79

<210> 13
 <211> 119
 <212> DNA
 <213> Homo sapiens

<400> 13
 caggctgctg gccccaggat acatagaaac ccactacggc ccagatgggc agccagtgg 60
 gctggccccc aaccacacg tgagatgctt ccatgggctc tgggatgcac cgccagagg 119

<210> 14
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 14

gatcattgcc actaccaagg gcgagtaagg ggcttccccg actcctgggt agtcctctgc 60
acctgctctg ggatgag 77

<210> 15
<211> 190
<212> DNA
<213> Homo sapiens

<400> 15
tggcctgata accctcagca ggaatgccag ctattatctg cgtccctggc cccccgggg 60
ctccaaggac ttctcaaccc acgagatctt tcggatggag cagctgctca cctggaaagg 120
aacctgtggc cacagggatc ctgggaacaa agcgggcatg accagccttc ctggtggtcc 180
ccagagcagg 190

<210> 16
<211> 66
<212> DNA
<213> Homo sapiens

<400> 16
ggcaggcgag aagcgcgag gacccggaag tacctggaac tgtacattgt ggcagaccac 60
accctg 66

<210> 17
<211> 72
<212> DNA
<213> Homo sapiens

<400> 17
ttcttgactc ggcaccgaaa cttgaaccac accaaacagc gtctcctgga agtcgccaac 60
tacgtggacc ag 72

<210> 18
<211> 167
<212> DNA
<213> Homo sapiens

<400> 18
cttctcagga ctctggacat tcaggtggcg ctgaccggcc tggaggtgtg gaccgagcgg 60
gaccgcagcc gcgtcacgca ggacgccaac gccacgctct gggccttcct gcagtggcgc 120
cgggggctgt gggcgcagcg gccccacgac tccgcgcagc tgctcac 167

<210> 19
<211> 85
<212> DNA
<213> Homo sapiens

<400> 19
gggccgcgcc ttccagggcg ccacagtggg cctggcgccc gtcgagggca tgtgccgcgc 60
cgagagctcg ggaggcgtga gcacg 85

<210> 20

<211> 143
 <212> DNA
 <213> Homo sapiens

<400> 20
 gaccactcgg agctcccat cggcgccgca gccaccatgg cccatgagat cggccacagc 60
 ctcggcctca gccacgaccc cgacggctgc tgcgtggagg ctgcggccga gtccggaggc 120
 tgcgtcatgg ctgcggccac cgg 143

<210> 21
 <211> 178
 <212> DNA
 <213> Homo sapiens

<400> 21
 gcacccgttt ccgcgcggtgt tcagcgccctg cagccgcccgc cagctgcgcg ccttcttccg 60
 caagggggggc ggcgcttgcc tctccaatgc cccggacccc ggactcccgg tgcgcgggc 120
 gctctgcggg aacggcttcg tggaagcggg cgaggagtgt gactgcggcc ctggccag 178

<210> 22
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 22
 gagtgcgcg acctctgctg ctttgctcac aactgctcgc tgcgcccggg ggcccagtgc 60
 gccacgggg actgctgcgt gcgctgcctg 90

<210> 23
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 23
 ctgaagccgg ctggagcgt gtgccgccag gccatgggtg actgtgacct ccctgagttt 60
 tgcacgggca cctcctccca ctgtccccc gacgtttacc tactggacgg ctcaccctgt 120
 gccaggggca gtggctactg ctgggatggc gcatgtccca cgctggagca gcagtgccag 180
 cagctctggg ggccctg 196

<210> 24
 <211> 107
 <212> DNA
 <213> Homo sapiens

<400> 24
 gctccacccc agctcccag gctgttttcc aggtgggtgaa ctctgcggga gatgctcatg 60
 gaaactgcgg ccaggacagc gagggccact tctgccttg tgcaggg 107

<210> 25
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 25

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ggatgccctg tgtgggaagc tgcagtgcc a ggtggaaag cccagcctgc tgcaccgca 60
catggtgcc a gtggactcta ccgttcacct agatggccag gaagtgactt gtcggggagc 120
cttggcactc cccagtgcc a gctggacct gcttggcctg ggcctggtag agccaggcac 180
ccagtgtgga cctagaatg                                     199

```

<210> 26

<211> 109

<212> DNA

<213> Homo sapiens

<400> 26

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gtttgcaata gcaaccataa ctgccactgt gctccaggct gggctccacc cttctgtgac 60
aagccaggct ttggtggcag catggacagt ggccctgtgc aggctgaaa 109

```

<210> 27

<211> 148

<212> DNA

<213> Homo sapiens

<400> 27

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accatgacac cttcctgctg gccatgctcc tcagcgtcct gctgcctctg ctcccagggg 60
ccggcctggc ctggtgttgc taccgactcc caggagccca tctgcagcga tgcagctggg 120
gctgcagaag ggaccctgcg tgcagtgg                                     148

```

<210> 28

<211> 92

<212> DNA

<213> Homo sapiens

<400> 28

```

ccccaaagat ggccacaca gggaccaccc cctgggcggc gttcacccca tggagttggg 60
ccccacagcc actggacagc cctggcccct gg                                     92

```

<210> 29

<211> 72

<212> DNA

<213> Homo sapiens

<400> 29

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accctgagaa ctctcatgag cccagcagcc accctgagaa gcctctgcc a gcagtctcgc 60
ctgaccccca ag                                     72

```

<210> 30

<211> 1031

<212> DNA

<213> Homo sapiens

<400> 30

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cagatcaagt ccagatgcc a agatcctgcc tctggtgaga ggtagctcct aaaatgaaca 60
gatttaaaga caggtggcca ctgacagcca ctccaggaa c ttgaactgca ggggcagagc 120
cagtgaatca ccggacctcc agcacctgca ggcagcttgg aagtttcttc cccgagtgga 180
gcttcgaccc accactcca ggaaccaga gccacattag aagttcctga gggctggaga 240

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```

acactgctgg gcacactctc cagctcaata aaccatcagt cccagaagca aaggtcacac 300
agccccctgac ctccctcacc agtggaggct gggtagtgct ggccatccca aaagggctct 360
gtcctgggag tctgggtgtgt ctctacatg caatttccac ggaccagct ctgtggagg 420
catgactgct ggccagaagc tagtggtcct ggggccctat ggttcgactg agtccacact 480
cccctgcagc ctggctggcc tctgcaaaca aacataattt tggggacctt ccttcctgtt 540
tcttcccacc ctgtcttctc ccctagggtg ttctgagcc cccaccccca atcccagtcg 600
tacacctgag gttctggagc tcagaatctg acagcctctc cccatttctg tgtgtgtcgg 660
ggggacagag ggaaccattt aagaaaagat accaaagtag aagtcaaaag aaagacatgt 720
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ggaggctgaa gcaggaggat cacttgagcc tgagttcaac actgcagtga gctatggtgg 960
caccactgca ctccagcctg ggtgacagag caagaccctg tctctaaaat aaattttaaa 1020
aagacataaa a 1031

```

<210> 31

<211> 78

<212> DNA

<213> Homo sapiens

<400> 31

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gtgtgccaga gcaggcgctg caggaagaat gccttcagg agcttcagcg ctgcctgact 60
gcctgccaca gccacggg 78

```

<210> 32

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: polyhistidine tag

<400> 32

His His His His His His

1

5

<210> 33

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: FLAG epitope tag

<400> 33

Asp Tyr Lys Asp Asp Asp Lys

1

5

<210> 34

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 34

aactcttgaa atgagaagcg tg

22

<210> 35

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 35

aatatcatgc accatgaccc ac

22

<210> 36

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 36

tggagtaagt attgtaaact at

22

<210> 37

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 37

ggagcttatac ctggattatac ta

22

<210> 38

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 38

agagccacac atccatgtcc tg

22

<210> 39

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 39

aagccactct gtgaattgcc at

22

<210> 40

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 40

gagtagtcgt agtaccagat gg

22

<210> 41

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 41

gtctggcaat ggagcatgaa aa

22

<210> 42

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 42

attagagcac atgaaggaaa gg

22

<210> 43

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 43

acactgcttt gggggacagg ct

22

<210> 44

<211> 22

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 44
cacgacgccca cagagccagc tc 22

<210> 45
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 45
aaccaccacg gattcacgt tc 22

<210> 46
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 46
ataaccagat ggctgtgggt ca 22

<210> 47
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 47
atccccgcaa tgaaatagtt ta 22

<210> 48
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 48
gttgagagcc cacttagata at 22

<210> 49
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 49

gcattggggg aagccaggac at

22

<210> 50

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 50

gccactagga ggcaatggca at

22

<210> 51

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 51

cgacggcatc acggccatct gg

22

<210> 52

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 52

tccaggctca ttcattttca tg

22

<210> 53

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 53

tgacatcaac ttctcctttc ct

22

<210> 54
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 54
agttgcagag acctagcctg tc 22

<210> 55
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 55
tctgggagag gacggagctg gc 22

<210> 56
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 56
tgtaggacta tattgctc 18

<210> 57
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 57
cgacatttag gtgacact 18

<210> 58
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: BstXI-linker
adapter

<400> 58
gtcttcacca cgggg

15

<210> 59
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: BstXI-linker
adapter

<400> 59
gtggtgaaga c

11

<210> 60
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 60
Asp Pro Gln Ala Asp Gln Val Gln Met
1 5

<210> 61
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 61
Asp Pro Gln Asp Gln Val Gln Met
1 5

<210> 62
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)..(11)
<223> "Xaa" represents a variable amino acid

<220>
<223> Description of Artificial Sequence: Zn-binding

consensus sequence

<400> 62

His Glu Xaa Xaa His Xaa Xaa Gly Xaa Xaa His
 1 5 10

<210> 63

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 63

ctgcctagag gccgagga

18

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 64

caggagacca cggaagatcg

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 65

ttgcctgaac cttcctatcc

20

<210> 66

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 66

cccctgtgtt cctcaggtc

19

<210> 67

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 67

gctccacact ctttcttgcc

20

<210> 68

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 68

aggcaggagg aagctgaat

19

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 69

cctaccacac cctccctctt

20

<210> 70

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 70

cctacccttc tgcacctta

19

<210> 71

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 71

aacttccttc tgggagctgg

20

<210> 72

<211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 72
 cacaccctgg tgaggagaga 20

<210> 73
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 73
 ccacgaagga ccaccg 16

<210> 74
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 74
 ctcacgtggg tgcctctg 18

<210> 75
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 75
 ctctacggcc gcagtgac 18

<210> 76
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 76
 gtccctccat gcccaatg 18

<210> 77
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 77
caggttaagt cggctcgc 18

<210> 78
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 78
ctctctctgc cttccccac 19

<210> 79
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 79
tctactgtgg ggaagatggg 20

<210> 80
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 80
cccctctact tcctcccca 19

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 81

gaccttgggg ttctaatacc

20

<210> 82
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 82
 gtgcacctgc tcaggactc

19

<210> 83
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 83
 cctggactct tatcacgttg c

21

<210> 84
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 84
 ttaccctcca ccattttctcc

20

<210> 85
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 85
 gtggagaggg aagggagaag

20

<210> 86
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 86
 ccccatgggt tgaatttaca 20

<210> 87
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
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His Gly Asp Cys Cys Val Arg Cys Leu Leu Lys Pro Ala Gly Ala Leu
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Cys Arg Gln Ala Met Gly Asp Cys Asp Leu Pro Glu Phe Cys Thr Gly
 35 40 45

Thr Ser Ser His Cys Pro Pro
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Thr Met Ala His Glu Ile Gly His Ser Leu Gly
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Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
 20 25 30

Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
 35 40 45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
 50 55 60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
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Leu Glu Lys Asn His Arg
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Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
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Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
 35 40 45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
 50 55 60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
 65 70 75 80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
 85 90 95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Val
 100 105 110

Arg Cys Phe His Gly Leu Trp Asp Ala Pro Pro Glu Asp His Cys His
 115 120 125

Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys
 130 135 140

Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser
 145 150 155 160

Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr
 165 170 175

His Glu

<210> 340

<211> 113

<212> PRT

<213> Homo sapiens

<400> 340

Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
 1 5 10 15

Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
 20 25 30
 Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
 35 40 45
 Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
 50 55 60
 Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
 65 70 75 80
 Leu Glu Lys Asn His Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser Tyr
 85 90 95
 Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr His
 100 105 110

Glu

<210> 341
 <211> 165
 <212> PRT
 <213> Homo sapiens

<400> 341
 Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
 20 25 30
 Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
 35 40 45
 Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
 50 55 60
 Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
 65 70 75 80
 Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
 85 90 95
 Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Asp
 100 105 110
 His Cys His Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val
 115 120 125
 Val Leu Cys Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg
 130 135 140
 Asn Ala Ser Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp
 145 150 155 160

Phe Ser Thr His Glu
165

<210> 342

<211> 168

<212> PRT

<213> Homo sapiens

<400> 342

Leu Ala Pro Gly Tyr Ile Glu Thr His Tyr Gly Pro Asp Gly Gln Pro
1 5 10 15

Val Val Leu Ala Pro Asn His Thr Asp His Cys His Tyr Gln Gly Arg
20 25 30

Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys Thr Cys Ser Gly
35 40 45

Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser Tyr Tyr Leu Arg
50 55 60

Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr His Glu Ile Phe
65 70 75 80

Arg Met Glu Gln Leu Leu Thr Trp Lys Gly Thr Cys Gly His Arg Asp
85 90 95

Pro Gly Asn Lys Ala Gly Met Thr Ser Leu Pro Gly Gly Pro Gln Ser
100 105 110

Arg Gly Arg Arg Lys Ala Arg Arg Thr Arg Lys Tyr Leu Glu Leu Tyr
115 120 125

Ile Val Ala Asp His Thr Leu Phe Leu Thr Arg His Arg Asn Leu Asn
130 135 140

His Thr Lys Gln Arg Leu Leu Glu Val Ala Asn Tyr Val Asp Gln Leu
145 150 155 160

Leu Arg Thr Leu Asp Ile Gln Val
165

<210> 343

<211> 167

<212> PRT

<213> Homo sapiens

<400> 343

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
1 5 10 15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
20 25 30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
35 40 45

Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
50 55 60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
65 70 75 80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
85 90 95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
100 105 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Asn
115 120 125

Ser Asn His Asn Cys His Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys
130 135 140

Asp Lys Pro Gly Phe Gly Gly Ser Met Asp Ser Gly Pro Val Gln Ala
145 150 155 160

Glu Asn His Asp Thr Phe Leu
165

<210> 344

<211> 193

<212> PRT

<213> Homo sapiens

<400> 344

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
1 5 10 15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
20 25 30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
35 40 45

Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
50 55 60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
65 70 75 80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
85 90 95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
100 105 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln
115 120 125

Ser Arg Arg Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu
130 135 140

Thr Ala Cys His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His
145 150 155 160

Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly
165 170 175

Gly Ser Met Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe
180 185 190

Leu

<210> 345

<211> 126

<212> PRT

<213> Homo sapiens

<400> 345

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
1 5 10 15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
20 25 30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
35 40 45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
50 55 60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
65 70 75 80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
85 90 95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
100 105 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu
115 120 125

<210> 346

<211> 93

<212> PRT

<213> Homo sapiens

<400> 346

Ala Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser
1 5 10 15

Trp Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro
20 25 30

His Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro
35 40 45

Thr Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu
50 55 60

Pro Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro
65 70 75 80

Gln Ala Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
85 90

<210> 347

<211> 236

<212> PRT

<213> Homo sapiens

<400> 347

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
1 5 10 15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
20 25 30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
35 40 45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
50 55 60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
65 70 75 80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
85 90 95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
100 105 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu Ala
115 120 125

Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu Ala
130 135 140

Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser Trp
145 150 155 160

Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro His
165 170 175

Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro Thr
180 185 190

Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu Pro
195 200 205

Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro Gln
210 215 220

Ala Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
 225 230 235

<210> 348

<211> 302

<212> PRT

<213> Homo sapiens

<400> 348

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
 1 5 10 15

Gln Gln Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe
 20 25 30

Gln Val Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp
 35 40 45

Ser Glu Gly His Phe Leu Pro Cys Ala Gly Arg Asp Ala Leu Cys Gly
 50 55 60

Lys Leu Gln Cys Gln Gly Gly Lys Pro Ser Leu Leu Ala Pro His Met
 65 70 75 80

Val Pro Val Asp Ser Thr Val His Leu Asp Gly Gln Glu Val Thr Cys
 85 90 95

Arg Gly Ala Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu
 100 105 110

Gly Leu Val Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln
 115 120 125

Ser Arg Arg Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu
 130 135 140

Thr Ala Cys His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His
 145 150 155 160

Cys Ala Pro Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly
 165 170 175

Gly Ser Met Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe
 180 185 190

Leu Leu Ala Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala
 195 200 205

Gly Leu Ala Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg
 210 215 220

Cys Ser Trp Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp
 225 230 235 240

Gly Pro His Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu
 245 250 255

Gly Pro Thr Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser
260 265 270

His Glu Pro Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro
275 280 285

Asp Pro Gln Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
290 295 300

<210> 349

<211> 235

<212> PRT

<213> Homo sapiens

<400> 349

Ser Gly Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys
1 5 10 15

Gln Gln Leu Trp Gly Pro Asp Gly Gln Glu Val Thr Cys Arg Gly Ala
20 25 30

Leu Ala Leu Pro Ser Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val
35 40 45

Glu Pro Gly Thr Gln Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg
50 55 60

Cys Arg Lys Asn Ala Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys
65 70 75 80

His Ser His Gly Val Cys Asn Ser Asn His Asn Cys His Cys Ala Pro
85 90 95

Gly Trp Ala Pro Pro Phe Cys Asp Lys Pro Gly Phe Gly Gly Ser Met
100 105 110

Asp Ser Gly Pro Val Gln Ala Glu Asn His Asp Thr Phe Leu Leu Ala
115 120 125

Met Leu Leu Ser Val Leu Leu Pro Leu Leu Pro Gly Ala Gly Leu Ala
130 135 140

Trp Cys Cys Tyr Arg Leu Pro Gly Ala His Leu Gln Arg Cys Ser Trp
145 150 155 160

Gly Cys Arg Arg Asp Pro Ala Cys Ser Gly Pro Lys Asp Gly Pro His
165 170 175

Arg Asp His Pro Leu Gly Gly Val His Pro Met Glu Leu Gly Pro Thr
180 185 190

Ala Thr Gly Gln Pro Trp Pro Leu Asp Pro Glu Asn Ser His Glu Pro
195 200 205

Ser Ser His Pro Glu Lys Pro Leu Pro Ala Val Ser Pro Asp Pro Gln
210 215 220

Asp Gln Val Gln Met Pro Arg Ser Cys Leu Trp
 225 230 235

<210> 350
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 350
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 aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
 tgctgctgct actactgctg ctgctctggc cagtgccagg cgccgggggtg cttcaaggac 180
 atatccctgg gcagccagtc accccgcact gggtcctgga tggacaacct tggcgaccg 240
 tcagcctgga ggagccggtc tcgaagccag acatggggct ggtggccctg gaggctgaag 300
 gccaggagct cctgcttgag ctggagaaga accacagggc 339

<210> 351
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 351
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 aggccgagga gctcacagct atgggctgga ggccccggag agctcggggg accccgttgc 120
 tgctgctgct actactgctg ctgctctggc cagtgccagg cgccgggggtg cttcaaggac 180
 atatccctgg gcagccagtc accccgcact gggtcctgga tggac 225

<210> 352
 <211> 562
 <212> DNA
 <213> Homo sapiens

<400> 352
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 cgttgctgct gctgctacta ctgctgctgc tctggccagt gccaggcgcc ggggtgcttc 120
 aaggacatat ccctgggagc ccagtcaccc cgactgggt cctggatgga caaccctggc 180
 gcaccgtcag cctggaggag ccggtctcga agccagacat ggggctggtg gccctggagg 240
 ctgaaggcca ggagctcctg cttgagctgg agaagaacca caggctgctg gccccaggat 300
 acatagaaac ccactacggc ccagatgggc agccagtggg gctggccccc aaccacacgg 360
 tgagatgctt ccatgggctc tgggatgcac cgccagagga tcattgccac taccaagggc 420
 gagtaagggg cttccccgac tcctgggtag tcctctgcac ctgctctggg atgagtggcc 480
 tgatcaccct cagcaggaat gccagctatt atctgcgtcc ctggccaccc cggggctcca 540
 aggacttctc aaccacgag at 562

<210> 353
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 353
 gaggccgagg agctcacagc tatgggctgg aggccccgga gagctcgggg gaccccgctt 60
 ctgctgctgc tactactgct gctgctctgg ccagtgccag gcgccggggg gcttcaagga 120
 catatccctg ggcagccagt caccgccac tgggtcctgg atggacaacc ctggcgaccc 180


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gtcagcctgg aggagccggt ctggaagcca gacatggggc tggtagccct ggaggctgaa 240
ggccaggagc tcctgcttga gctggagaag aaccatggcc tgatcaccct cagcaggaat 300
gccagctatt atctgcgtcc ctggccaccc cggggctcca aggacttctc aaccacagag 360
at                                                                 362

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<210> 354
 <211> 518
 <212> DNA
 <213> Homo sapiens

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<400> 354
gaggccgagg agctcacagc tatgggctgg agggcccggg gagctcgggg gaccccgttg 60
ctgctgctgc tactactgct gctgctctgg ccagtgccag gcgcgggggt gcttcaagga 120
catatccctg ggcagccagt caccgccac tgggtcctgg atggacaacc ctggcgacc 180
gtcagcctgg aggagccggt ctggaagcca gacatggggc tggtagccct ggaggctgaa 240
ggccaggagc tcctgcttga gctggagaag aaccacaggc tgctggcccc aggatacata 300
gaaacccact acggcccaga tgggcagcca gtggtgctgg cccccaacca cacgcatcat 360
tgccactacc aagggcgagt aaggggcttc cccgactcct gggtagtcct ctgcacctgc 420
tctgggatga gtggcctgat caccctcagc aggaatgcca gctattatct gcgtccctgg 480
ccacccggg gctccaagga cttctcaacc cacgagat                                                                 518

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<210> 355
 <211> 506
 <212> DNA
 <213> Homo sapiens

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<400> 355
ctggccccag gatacataga aaccactac ggcccagatg ggcagccagt ggtgctggcc 60
cccaaccaca cggatcattg ccactaccaa gggcgagtaa ggggcttccc cgactcctgg 120
gtagtctctt gcacctgtc tgggatgagt ggctgatca cctcagcag gaatgccagc 180
tattatctgc gtccctggcc accccggggc tccaaggact tctcaacca cgagatcttt 240
cggatggagc agctgtcac ctggaaagga acctgtggcc acagggatcc tgggaacaaa 300
gcgggcatga ccagccttcc tgggtgtccc cagagcaggg gcagggcgaag agcgcgagg 360
accgggaagt acctggaact gtacattgtg gcagaccaca cctgttctt gactcggcac 420
cgaaacttga accacaccaa acagcgtctc ctggaagtgc ccaactacgt ggaccagctt 480
ctcaggactc tggacattca ggtggc                                                                 506

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<210> 356
 <211> 503
 <212> DNA
 <213> Homo sapiens

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<400> 356
cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
ggggcctggc tcccacccag ctcccaggc ctgtttccag gtggtgaact ctgctggaga 120
tgctcatgga aactgcggcc aggacagcga gggccacttc ctgccctgtg caggagggga 180
tgccctgtgt gggaagctgc agtgccaggg tggaaagccc agcctgctcg caccgcacat 240
ggtgccagtg gactctaccg ttcacctaga tggccaggaa gtgacttgtc ggggagcctt 300
ggcactcccc agtgcccagc ttgacctgct tggcctgggc ctggtagagc caggcaccca 360
gtgtggacct agaattggtt gcaatagcaa ccataactgc cactgtgctc caggctgggc 420
tccacccttc tgtgacaagc caggctttgg tggcagcatg gacagtggcc ctgtgcaggc 480
tgaaaaccat gacaccttcc tgc                                                                 503

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<210> 357

<211> 581
 <212> DNA
 <213> Homo sapiens

<400> 357
 cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
 ggggcctggc tcccacccag ctcccagagg ctgtttccag gtggtgaact ctgcgggaga 120
 tgctcatgga aactgcggcc aggacagcga gggccacttc ctgccctgtg cagggaggga 180
 tgccctgtgt gggaagctgc agtgccaggg tggaaagccc agcctgctcg caccgcacat 240
 ggtgccagtg gactctaccg ttacactaga tggccaggaa gtgacttgtc ggggagcctt 300
 ggcactcccc agtgcccagc tggacctgct tggcctgggc ctggtagagc caggcaccca 360
 gtgtggacct agaatggtgt gccagagcag gcgctgcagg aagaatgcct tccaggagct 420
 tcagcgctgc ctgactgcct gccacagcca cggggtttgc aatagcaacc ataactgcca 480
 ctgtgctcca ggctgggctc cacccttctg tgacaagcca ggctttggtg gcagcatgga 540
 cagtggccct gtgcaggctg aaaacccatga caccttctctg c 581

<210> 358
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 358
 cagtggctac tgctgggatg gcgcatgtcc cacgctggag cagcagtgcc agcagctctg 60
 ggggcctgat ggccaggaaag tgacttgtcg gggagccttg gcactcccca gtgccagct 120
 ggacctgctt ggcttgggcc tggtagagcc aggcacccag tgtggacctg gaatggtgtg 180
 ccagagcagg cgctgcagga agaatgcctt ccaggagctt cagcgctgcc tgactgcctg 240
 ccacagccac ggggtttgca atagcaacca taactgccac tgtgctccag gctgggctcc 300
 acccttctgt gacaagccag gctttggtgg cagcatggac agtggccctg tgcaggctga 360
 aaaccatgac accttctctg 380

<210> 359
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 359
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 aagggaccct gcgtgcagtg gcccacaaaga tggcccacac agggaccacc ccctgggcgg 120
 cgttcacccc atggagtgtg gcccacagc cactggacag ccctggcccc tggaccctga 180
 gaactctcat gagcccagca gccaccctga gaagcctctg ccagcagtct cgctgacct 240
 ccaagcagat caagtccaga tgccaagatc ctgcctctgg tgagaggtag ctccataaat 300
 gaacagattt aaagacaggt ggcc 324

<210> 360
 <211> 753
 <212> DNA
 <213> Homo sapiens

<400> 360
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 ggggcctgat ggccaggaaag tgacttgtcg gggagccttg gcactcccca gtgccagct 120
 ggacctgctt ggcctgggcc tggtagagcc aggcacccag tgtggacctg gaatggtgtg 180
 ccagagcagg cgctgcagga agaatgcctt ccaggagctt cagcgctgcc tgactgcctg 240
 ccacagccac ggggtttgca atagcaacca taactgccac tgtgctccag gctgggctcc 300
 acccttctgt gacaagccag gctttggtgg cagcatggac agtggccctg tgcaggctga 360

aaacccatgac	accttcctgc	tggccatgct	cctcagcgtc	ctgctgcctc	tgctcccagg	420
ggccggcctg	gcctgggtgt	gctaccgact	cccaggagcc	catctgcagc	gatgcagctg	480
gggctgcaga	agggaccctg	cgtgcagtg	ccccaaagat	ggcccacaca	gggaccaccc	540
cctgggcggc	gttcacccca	tggagttggg	ccccacagcc	actggacagc	cctggcccct	600
ggaccctgag	aactctcatg	agcccagcag	ccaccctgag	aagcctctgc	cagcagtctc	660
gcctgacccc	caagcagatc	aagtccagat	gccaaagatcc	tgccctctggt	gagaggttagc	720
tcctaaaatg	aacagattta	aagacagggtg	gcc			753

<210> 361

<211> 1154

<212> DNA

<213> Homo sapiens

<400> 361

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tgctcatgga	aactgcggcc	aggacagcga	gggccacttc	ctgccctgtg	cagggaggga	180
tgccctgtgt	gggaagctgc	agtgccaggg	tggaaagccc	agcctgctcg	caccgcacat	240
ggtgccagtg	gactctaccg	ttcacctaga	tggccaggaa	gtgacttgct	ggggagcctt	300
ggcactcccc	agtgcaccag	tggacctgct	tggcctgggc	ctggtagagc	caggcaccca	360
gtgtggacct	agaatggtgt	gccagagcag	gcgctgcagg	aagaatgcct	tccaggagct	420
tcagcgctgc	ctgactgcct	gccacagcca	cggggtttgc	aatagcaacc	ataactgcca	480
ctgtgctcca	ggctgggctc	cacccttctg	tgacaagcca	ggctttggtg	gcagcatgga	540
cagtggccct	gtgcaggctg	aaaaccatga	caccttccctg	ctggccatgc	tcctcagcgt	600
cctgctgcct	ctgctcccag	gggcgggcct	ggcctggtgt	tgctaccgac	tcccaggagc	660
ccatctgcag	cgatgcagct	ggggctgcag	aagggaacct	gcgtgcagtg	gccccaaaga	720
tggcccacac	agggaccacc	ccctgggcgg	cgttcacccc	atggagttgg	gccccacagc	780
cactggacag	ccctggcccc	tggacctga	gaactctcat	gagcccagca	gccaccctga	840
gaagcctctg	ccagcagctc	cgctgacccc	ccaagatcaa	gtccagatgc	caagatcctg	900
cctctggtga	gaggtagctc	ctaaaatgaa	cagatttaaa	gacaggtggc	cactgacagc	960
cactccagga	acttgaactg	caggggcaga	gccagtgaat	caccggacct	ccagcacctg	1020
caggcagctt	ggaagtctt	tccccgagtg	gagcttcgac	ccaccactc	caggaacca	1080
gagccacatt	agaagttcct	gagggctgga	gaacactgct	gggcacactc	tccagctcaa	1140
taaaccatca	gtcc					1154

<210> 362

<211> 953

<212> DNA

<213> Homo sapiens

<400> 362

cagtggctac	tgctgggatg	gcgcatgtcc	cacgctggag	cagcagtgcc	agcagctctg	60
ggggcctgat	ggccaggaag	tgacttgctg	gggagccttg	gcactcccca	gtgccagct	120
ggacctgctt	ggcctgggcc	tggtagagcc	aggcaccacg	tgtggacctg	gaatggtgtg	180
ccagagcagg	cgctgcagga	agaatgcctt	ccaggagctt	cagcgctgcc	tgactgcctg	240
ccacagccac	ggggtttgca	atagcaacca	taactgccac	tgtgctccag	gctgggctcc	300
acccttctgt	gacaagccag	gctttggtgg	cagcatggac	agtggccctg	tgaggctga	360
aaacccatgac	accttcctgc	tggccatgct	cctcagcgtc	ctgctgcctc	tgctcccagg	420
ggcgggcctg	gcctgggtgt	gctaccgact	cccaggagcc	catctgcagc	gatgcagctg	480
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cctgggcggc	gttcacccca	tggagttggg	ccccacagcc	actggacagc	cctggcccct	600
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<211> 812

<212> PRT

<213> Homo sapiens

<400> 363

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Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
35 40 45

Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
50 55 60

Met Gly Leu Val Ala Leu Glu Ala Glu Gly Gln Glu Leu Leu Leu Glu
65 70 75 80

Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
85 90 95

Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Asp
100 105 110

His Cys His Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val
115 120 125

Val Leu Cys Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg
130 135 140

Asn Ala Ser Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp
145 150 155 160

Phe Ser Thr His Glu Ile Phe Arg Met Glu Gln Leu Leu Thr Trp Lys
165 170 175

Gly Thr Cys Gly His Arg Asp Pro Gly Asn Lys Ala Gly Met Thr Ser
180 185 190

Leu Pro Gly Gly Pro Gln Ser Arg Gly Arg Arg Glu Ala Arg Arg Thr
195 200 205

Arg Lys Tyr Leu Glu Leu Tyr Ile Val Ala Asp His Thr Leu Phe Leu
210 215 220

Thr Arg His Arg Asn Leu Asn His Thr Lys Gln Arg Leu Leu Glu Val
225 230 235 240

Ala Asn Tyr Val Asp Gln Leu Leu Arg Thr Leu Asp Ile Gln Val Ala
245 250 255

Leu Thr Gly Leu Glu Val Trp Thr Glu Arg Asp Arg Ser Arg Val Thr
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 Gln Asp Ala Asn Ala Thr Leu Trp Ala Phe Leu Gln Trp Arg Arg Gly
 275 280 285
 Leu Trp Ala Gln Arg Pro His Asp Ser Ala Gln Leu Leu Thr Gly Arg
 290 295 300
 Ala Phe Gln Gly Ala Thr Val Gly Leu Ala Pro Val Glu Gly Met Cys
 305 310 315 320
 Arg Ala Glu Ser Ser Gly Gly Val Ser Thr Asp His Ser Glu Leu Pro
 325 330 335
 Ile Gly Ala Ala Ala Thr Met Ala His Glu Ile Gly His Ser Leu Gly
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 Leu Ser His Asp Pro Asp Gly Cys Cys Val Glu Ala Ala Ala Glu Ser
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 Gly Gly Cys Val Met Ala Ala Ala Thr Gly His Pro Phe Pro Arg Val
 370 375 380
 Phe Ser Ala Cys Ser Arg Arg Gln Leu Arg Ala Phe Phe Arg Lys Gly
 385 390 395 400
 Gly Gly Ala Cys Leu Ser Asn Ala Pro Asp Pro Gly Leu Pro Val Pro
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 Pro Ala Leu Cys Gly Asn Gly Phe Val Glu Ala Gly Glu Glu Cys Asp
 420 425 430
 Cys Gly Pro Gly Gln Glu Cys Arg Asp Leu Cys Cys Phe Ala His Asn
 435 440 445
 Cys Ser Leu Arg Pro Gly Ala Gln Cys Ala His Gly Asp Cys Cys Val
 450 455 460
 Arg Cys Leu Leu Lys Pro Ala Gly Ala Leu Cys Arg Gln Ala Met Gly
 465 470 475 480
 Asp Cys Asp Leu Pro Glu Phe Cys Thr Gly Thr Ser Ser His Cys Pro
 485 490 495
 Pro Asp Val Tyr Leu Leu Asp Gly Ser Pro Cys Ala Arg Gly Ser Gly
 500 505 510
 Tyr Cys Trp Asp Gly Ala Cys Pro Thr Leu Glu Gln Gln Cys Gln Gln
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 Leu Trp Gly Pro Gly Ser His Pro Ala Pro Glu Ala Cys Phe Gln Val
 530 535 540
 Val Asn Ser Ala Gly Asp Ala His Gly Asn Cys Gly Gln Asp Ser Glu
 545 550 555 560

Gly	His	Phe	Leu	Pro	Cys	Ala	Gly	Arg	Asp	Ala	Leu	Cys	Gly	Lys	Leu	
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Gln	Cys	Gln	Gly	Gly	Lys	Pro	Ser	Leu	Leu	Ala	Pro	His	Met	Val	Pro	
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Val	Asp	Ser	Thr	Val	His	Leu	Asp	Gly	Gln	Glu	Val	Thr	Cys	Arg	Gly	
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Ala	Leu	Ala	Leu	Pro	Ser	Ala	Gln	Leu	Asp	Leu	Leu	Gly	Leu	Gly	Leu	
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Cys	His	Ser	His	Gly	Val	Cys	Asn	Ser	Asn	His	Asn	Cys	His	Cys	Ala	
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Pro	Gly	Trp	Ala	Pro	Pro	Phe	Cys	Asp	Lys	Pro	Gly	Phe	Gly	Gly	Ser	
				675					680					685		
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Ala	Met	Leu	Leu	Ser	Val	Leu	Leu	Pro	Leu	Leu	Pro	Gly	Ala	Gly	Leu	
				705					710					715		
Ala	Trp	Cys	Cys	Tyr	Arg	Leu	Pro	Gly	Ala	His	Leu	Gln	Arg	Cys	Ser	
				725					730					735		
Trp	Gly	Cys	Arg	Arg	Asp	Pro	Ala	Cys	Ser	Gly	Pro	Lys	Asp	Gly	Pro	
				740					745					750		
His	Arg	Asp	His	Pro	Leu	Gly	Gly	Val	His	Pro	Met	Glu	Leu	Gly	Pro	
				755					760					765		
Thr	Ala	Thr	Gly	Gln	Pro	Trp	Pro	Leu	Asp	Pro	Glu	Asn	Ser	His	Glu	
				770					775					780		
Pro	Ser	Ser	His	Pro	Glu	Lys	Pro	Leu	Pro	Ala	Val	Ser	Pro	Asp	Pro	
				785					790					795		
Gln	Asp	Gln	Val	Gln	Met	Pro	Arg	Ser	Cys	Leu	Trp					
				805					810							